SHIRIN, P.K., kand.tekhn.nauk; SKOPIN. G.A., nauchnyy sotrudnik, Prinimali uchastiye; ANTONOV, V.I., insh.; ZELENIN, S.S., insh.; BOGUSHEVICH, Ye.N., insh.; KLIHOVA, G.D., red.isd-ve; QOL'BERG, T.M., tekhn.red.

[Norms RN-1-60 for drawing-up plans for the organization of construction] Raschetnys normativy dlia sostavlenia proektov organizatsii stroitel'stva RN-1-60. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 98 p.

(MIRA 13:12)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organisatsii, mekhanizatsii i tekhnichaskoy pomoshchi stroitel'stvu.

2. Rukovoditel' Saktora organizatsii promyshlennogo stroitel'stva
i tekhnologii proisvodstva rabot Nauchno-issledovatel'skogo instituta organizatsii, mekhanizatsii i tekhnichaskoy pomoshchi stroitel'stvu (for Shirin). 3. Otdel ekonomiki i organizatsii stroitel'stva Gosstroya SSSR (for Antonov, Zelenin, Bogushevich).

(Construction industry)

Variability of the anthrax bacillus. Isv.AN Kasakh.SSE. Ser.kraev.
pat. no.6;11-17 '50. (MIRA 9:8)

ANTONOV, V.K.

Variability of Brucella and prospects for producing vaccinal strains. Trudy Inst.kraev.pat.AN Kasakh.SSR 6:3-13 '58.

(BRUCELIA)

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ring results in loss of physiol activity.

Pre-

sented by Acad V. M. Rodionov 7 Apr 52.

tive compds; analogous substitution in the pyrrole

lyl)-butyric acid results in physiologically ac-

methyl group in the benzene ring of gamma-(3-indo

USSE/Chemistry - Plant Growth Stimulants il Jun 🕾

"The Synthesis of Methyl-Substituted gamma-(3-Ind-olyl)-Butyric Acids," N. N. Suvorov, V. K. Antonov
"Dok Ak Mauk SSSH" Vol LXXXIV, No 5, pp 971 - 974

Since 1948, work on the synthesis of gamma-(3-indoly1)-butyric acids has been systematically going on at the Chair of Org Chem, Moscow Chem-fechnol Inst imeni D. I. Mendeleyev under the direction of Acad V. M. Rodionov for the purpose of explaining the connection between the structure of these compd and their physiol activity. In 1949 a general method for the synthesis of gamma-(3-indoly1)-butyric acids was worked out.

acids were tested as stimulants for root growth synthesis of methyl substituted gamma-(3-indolv1)-This method was used in the present work for the growth. Gammaand not only does not stimulate, but retards roo brings on unusually strong fission of the stalks activity is close to gamma-(3-indoly1)-butyric acid is an active stimulant for root growth and by shoved that gamma-/3(2-methylindolyl) K. A. Timiryazev, Acad Sci USSR. These tests but; ric acids. All of the methylindolylbutyric be noted that substitution of hydrogen at the butyric acids do not act on the stalks. It may acid. in bean buds at the Inst of Plant Physiol imeni Gamma-[3(7-methylindolyl)]-butyric acid $\frac{1}{3}(1-methyl-and)$ 2-methylindolyl /-butyric

APPROVED FOR RELEASE: 06/19/2000

111E22

CIA-RDP86-00513R000101810003-7"

ANTONOV, V. K.

USSR/Chemistry - Plant Growth Stimulants 21 Aug 53

"The Synthesis of Phenyl-substituted V-(3-Indolyl) butyric Acids," N. N. Suvorov, V. K. Antonov and Ye. M. Rokhlin, Moscow Chemicotechnol Inst im D. I. Mendeleyev

DAN SSSR, Vol 91, No 6, pp 1345-1348

Studied the effect of introducing a phenyl group into indolylbutyric acid on the physiol activity of the latter in regard to growth stimulation. Found that $Y-\sqrt{3}-(5-\text{phenylindolyl})$ butyric acid is an active stimulator of root formation. Concludes that

269T11

introduction of a phenyl group into the benzene nucleus of indolylbutyrichcid leads to an active compd. Presented by Acad V. M. Rodionov 24 Jun 53.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101810003-7

ANTONOV, V. K.

ANTONOV, V. K.--"Synthetic Investigations in the Field of Gamma-(Indoly1-3)-Butyric Acid and Its Derivatives." Min Higher Education USSR.

Moscow Order of Lenin Chemicotechnological Inst imeni D. I. Mendel-eyev. Moscow, 1955. (Dissertation for the Degree of Candidate in Chemical Science).

SO Knishnaya letopis' No 2, 1956

AUTHORS:

Braz, G. I., Antonov, V. K., Kurdyumova, K. II.

SOY/79-28-11-16/55

TITLE:

On Some Ethylenimino-1,3,5-Trinzines (O nekotorykh etilen-

imino-1,3,5-triazinakh)

PERIODICAL:

Zhurnal obshchey khimii, 1958, Vol 28, Nr 11,

pp 2972 - 2977 (USSR)

ABSTRACT:

As is known, for the past 6 years the 2,4,6-triethylen-imino-1,3,5-triazine (TET) has been already used as a medical preparation against new growths; its use is, however, limited as it has very high toxic effects. With the intention of finding compounds with higher chemotherapeutical efficiency the authors synthesized already earlier (Ref 1) the compounds (I)-(X) which have a similar structure as TET, and have two ethylenimine residues as well as a substituted amino, alkoxy, or alkyl mercapto group. These compounds were obtained by the condensation of the 2,4-diethy lenimino-6-chloro-1,3,5-triazine with the corresponding

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amines or sodium alcoholates and sodium mercaptides in anhydrous solvents. Some amino diethylenimino

On Some Ethylenimino-1,3,5-Triazines

SOV/79-28-11-16/55

trianines were synthesized by the condensation of the 2-amino-4,6-dichloro-1,3,5-triazine with ethylen-imine for reasons of comparison. According to this method also the compound (I) obtained already by American scientists in another way was synthesized. The synthesized ethylenimino triazines are white crystalline products and are stable at low temperatures. Only the compound (II) is an exception as it could not be obtained in crystalline state. The results of the biological investigations have not yet been obtained. There are 4 references, 2 Soviet references.

ASSOCIATION:

Institut eksperimental'noy patologii i terapii raka Akademii meditsinskikh nauk SSSR (Institute of Experimental Pathology and Cancer Therapy of the Academy of Medical Sciences, USSR)

SUBHITTED:

September 28, 1957

Card 2/2

AUTHOR:

Antonov, V. K.

SOV/79-29-1-64/74

TITLE:

Reaction of Amines With Methyl- α -bromo Acrylate (Vzaimodeystviye aminov s metilovym efirom α -bromakrilovoy kisloty). Synthesis of Sume Derivatives of α -Bromo- β -amino Acids (Sintez nekotorykh proizvodnykh α -brom- β -aminokislot)

FERIOD_CAL:

Thurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 306-309 (USSR)

ABSTRACT:

In 1943 Cromwell and collaborators showed (Ref 1) that in benzene solution α -bromo- β -phenyl- β -benzyl aminopropiophenone (I) disproportionates and that in this connection the bromine hydrate of α -bromo- β -phenyl- β -benzyl aminopropiophenone and 1-benzyl-2-phenyl-3-benzoylethylenimine (II) is formed (Scheme 1). The authors used this reaction for the synthesis of the hitherto little investigated bromine hydrates of α -bromo- β -amino acids (Refs 2-4) and the corresponding derivatives of ethylenimino carboxylic acids. Therefore, they investigated the reaction of methyl- α -bromo acrylate (III) with the same molecular amounts as methyl amine, benzyl amine and piperidine which quite expectedly is to proceed according to scheme 2. It was found that in this connection the corresponding bromine hydrates of the methyl esters of α -bromo- β -

Card 1/2

Reaction of Amines With Methyl- α -bromo Acrylate. Synthesis of Some Derivatives of α -Bromo- β -amino Acids

alkyl aminopropionic acids result. The author synthesized the bromine hydrates of methyl- α -bromo- β -methyl amino-, α -bromo- β -benzyl amino- and α -bromo- β -piperidino-propionates in yields of 43.72 and 80%, respectively (calculated for bromine). These bromine hydrates so far have not been described yet in publications. The structure of the compounds obtained was confirmed by the quantitative determination of the α -bromine atom. The bromine hydrate of methyl- α -bromo- β -benzyl amino-propionate was also obtained by action of dry hydrogen bromine in 1-benzyl-2-carbomethoxy ethylenimine. There are 11 references, 1 of which is Soviet.

ASSOCIATION:

Institut eksperimental noy patologii i terapii raka Akademii meditsinskikh nauk SSSR (Institute of Experimental Cancer Fathology and Therapy of the Academy of Medical Sciences, USSR)

SUBMITTED:

October 15, 1957

Card 2/2

5(3) AUTHOR:	Antonov, V. K.	SOV/79-29-4-19/77
TITLE:	Some 2-Cyanoethylenimines and Nitriles of OC-halogen-\$\beta\$-amino acids (Nekotoryye 2-tsianetileniminy i nitrily ox-galoid-\$\beta\$-aminokislot)	
PERIODICAL:	Zhurnal obshchey khimii, 1959, V (USSR)	ol 29, Nr 4, pp 1132-1135
ABSTRACT:	The author used the method devise coworkers for the synthesis of the carboxylic acids (I) (Ref 1) according CH-CH-COOR" + H2NR"!	he esters of ethylenimine ording to the scheme H ₅) N R'-CH-CH-COOR"
Card 1/3	Br Br RM - N (I) also for the synthesis of 1-alkyl-2-cyanoethylenimines (II) CH ₂ - CH - CN R (II), where R=CH ₂ C ₆ H ₅ ,C ₆ H ₁₁ ,CH ₃ ,CH(CH ₃) ₂ . These	

507/79-29-4-19/77

compounds have so far not been known. The author condensed the nitrile of ex, \(\beta\)-dibromo-propionic acid with benzyl-, cyclohexyl-, methyl- and isopropyl amine. Yields, constants and analyses of the compounds obtained are given in table 1. The reaction characteristic of the three-membered ethyleneimine ring is the cleavage with Lydrohalic acids. In dependence of the nucleophilic capability of the substituents the cleavage can take place in two directions (Refs 1, 2, 3) (Scheme 2). In the case of the imines (II) the formation of the bromohydrates of the nitriles of οζ-bromo-βalkyl-amino-propionic acids had to be expected on the action of hydrobromic acid in ether solution, which really took place (Table 2). By the reaction of benzyl-, cyclohexyl-, isopropyl- and methyl amine with the nitrile of od, B-dibromo-propionic acid 1-benzyl-, toyclohexyl-, 1-isopropyl- and 1-methyl-2-cyanoethylenimine were obtained, accordingly. On the influence of dry HBr upon 2-cyanosthylenimine the corresponding bromine hydrates of oc-bromo-6 -alkylamino-propionic acid nitriles were formed. By the saponification of 1-cyclohexyl-2-cyanoethylenimine

Card 2/3

Some 2-Cyanoethylenimines and Nitriles of ∝ -halogen-β-amino acids

SOY/79-29-4-19/77

with aqueous alcoholic alkali liquor the amide of 1-cyclohexyl-ethylenimino-2-carboxylic acid was obtained. The structure of the compounds synthesized was confirmed by the formation of J_2 from the acidified from

solution of potassium iodide (Refs 3, 4, 6) in alcohol and acetone. There are 2 tables and 6 references, 1 of which is Soviet.

ASSOCIATION: Institut eksperimental noy patologii i terapii raka Akademii meditsinskikh nauk SSSR (Institute of Experimental Cancer Pathology and Therapeutics of the Academy of Medical Sciences, USSR)

SUBMITTED:

March 6, 1958

Card 3/3

L 12337-63

YAM

5/081/63/000/005/037/075

AUTHOR:

Braz, G. I., Intonov, V. K. and Kudryumova, K. N.

TITLE:

2-replaceable 4.6-diethylenimino-1,3,5 triazines

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 251, abstract 5Zh249 (Tr. In-ta eksperim. i klinich. onkol. AMN SSSR, 1960, no. 2, 124-

127)

Through condensation of 2-R-4,6-diethylenimino-1,3,5-triazine (I) TEXT: (R = Cl), (Ia) with corresponding alcoholate or mercaptide of Na I (R = alkoxy or alkylmercaptide) were synthesized. I (R = N-substituted amino) is obtained by two methods. Method A: cyanure chloride (II) is condensed with amine and introduced into reaction with ethylenimino (III). Method B: Ia is obtained from II and III, in which the atom of chlorine is replaced by the primary or secondary amine radical. 0.37 g of Na is heated with 5 ml of xylol to boiling, crushed Na is added, it is cooled and 3.1 g of 3 -ocyethylpiperidine is added, it is heated for 2 hours at 70°C, cooled again and 3 g of Ta are added. It is again boiled for 2 hours and filtered. The filtrate is steamed in a vacuum without heating. 2.3 g of the residue are dissolved in ether. After partial concentration by steaming, I is obtained from the filtrate $(R = \beta - (N-piperidino) - ethoxy)$ with a yield of 39%, m.p.

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L 12337-63

\$/081/63/000/005/037/075

2-replaceable 4.6-diethylenimino-

lll - 112°C. Similarly, I is obtained (the data below give R, yield in \$, m.p. in °C): (C2H₅)NCH₂CH₂O, 65, 61.5 - 62.5 (from petr. ether); \$\beta\$ - (N-morpholino) - ethoxy, 47.4; 143 - 145 (from acetono). To 0.38 g of crushed Na in 5 ml of xylol in N₂ atmosphere 2 g benzyl mercaptane are gradually added. The mixture is heated for 2 hours at 70°C (Glycerin bath), it is cooled and 2.53 g of Ia in 53 g of C6H6 are added. The mixture is again heated for 2 hours at 80°C (temp. of the bath), filtered and steamed in a vacuum. The product obtained is I (R = benzylmercapto), yield 54.1%, m.p. 114 - 115°C (from acetone). To 0.026 moles of II in 100 ml of anhydrous ether over a period of 1 hour at -8 to -13°C, a solution of 0.057 moles of piperidine in 50 ml ether is added. It is agitated 30 min at -13°C, filtered and the residue rinsed with warm ether. The combined filtrates are refluxed in a vacuum until dry, and the obtained product 2-R-4,6-dichlor-1,3,7-triazine (VI) (R = piperidine), C3H₁₀N₂Cl₂ (IVa), yield 61%, m.p. 90 = 90.5°C, (from petr. ether). Similarly, IV is obtained (the data gives R, composition formula, b.p. in °C); morpholino, C7H₈N₄OCl₂, 157.5 = 158.6°C (from benzyl-petr. ether); benzylamino, C10H₈N₄Cl₂, 116.3 = 117.8°C (from petr. ether). Iv (R = methylamino) is synthesized by the method described in (Diels 0., Ber., 1899, 32, 691). To a solution 0.0457 Card 2/3

L 12317-63

S/061/63/000/005/037/075

2-replaceable 4.6-diethylenimino-

moles of II in 25 ml of anhydrous C_6H_6 at $3-5^{\circ}C$ a solution of 0.01 moles of IVa in 25 ml anhydrous C_6H_6 is added. The mixture is agitated for 4 hours at 30-35°C and left standing 12 hours, filtered, the filtrate is steamed in a vacuum and the product obtained is I (R = piperidino) (B), yield 34%, m.p. 130 = 131°C (from benzene petr. ether).).0071 moles of Ia are dissolved in 40 ml of anhydrous CHCl₃ and drop by drop a solution of 0.057 moles of piperidine in 20 ml CHCl₃ is added, it is agitated for 4 hours at $16-20^{\circ}C$, the residue is filtered, and the filtrate is steamed in a vacuum. Ib is obtained with yield of 70%. Similarly I is obtained (the data gives R, method, yield in %, m.p. in °C): morpholino, A, 43, B, 51, 132 - 133.2°C; NHCH₂CH₂NH₃H₁₀ (NC₅H₁₀ = piperidyl), B, 56, 83.8 - 85.3; $0 < (CH_2CH_2) > NCH_2CH_2NH$, B, 34, 82.1 - 85.4. Ye. Tarasevich.

Abstractor's note: Complete translation

Card 3/3

5.3010 7371 \$07/79-30-1-32/78 **AUTHORS:** Antonov, V. K., Berlin, A. Ya. TITLE: Alkaline Saponification of Esters and Nitriles of Ethyleneiminocarboxylic Acids PERIODICAL: Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 151-153 (USSR) ABSTRACT: The methyl ester of N-methylethyleneiminocarboxylic acid (I) was saponified with alcoholic NaOH, and only one product, the sodium salt of N-methylethyleneimino-carboxylic acid (II) was isolated, in 25% yield, mp 222-223 (dec). The free acid was not obtained by aciditying the above salt, but rather a water soluble polymeric product was obtained. CH2-CH-CONH2 CH2-CH-COOR CH₂--CH--CN \<u>s</u>/ du, ĊII3 ĊH, (I) Re-CH_{1.} (II) R e- Na (LV) (111) Card 1/2

Alkaline Saponification of Esters and Nitriles of Ethyleneiminocarboxylic Acids

77371 80V/79-30-1-32/78

The amide of N-methylethyleneithocarboxylic acid (IV) was obtained in 25% yield (mp 160-101°) by saponification of the nitrile of N-methylethyleneiminocarboxylic acid (III) with aqueous-alcoholic alkali. The corresponding sodium salt (II) was obtained in 40-45% yield. At the same time amide (IV) was obtained, in 27.5% yield (mp 98-100°), by saponification of nitrile (III) with a solution of KOH containing 3% H₂O₂. There are 4 references, 1 Soviet, 1 German, 2 U.S. The U.S. references are: M. A. Stolberg, J. O'Neill, T. Wagner-Jauregg, J. Am. Chem. Soc., 75, 5045 (1953); G. Jones, J. Org. Chem, 9, 125 (1944).

SUBMITTED:

December 17, 1958

Card 2/2

5.3610

77401 80**V/**79-30-1-62**/78**

AUTHORS:

Berlin, A. Ya., Antonov, V. K.

TITLE:

Some Diethyleneiminotriazine Derivatives of a -Amino

Acida

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 1, pp 282-

286 (USSR)

ABSTRACT:

Analogs of the toxic carcinostatic drug, triethyleneimino-S-triazine (TET), diethyleneiminotriazine compounds of type (I), (II), and (III), containing radicals of Q -amino acid, were prepared and tested as drugs.

CH₃-CH₃

N

CH₃-CH₃

R

N

CH₃-CH₃

(A)

Card 1/4

Some Diethyleneiminotriazine Derivatives of ${\bf Q}$ -Amino Acids

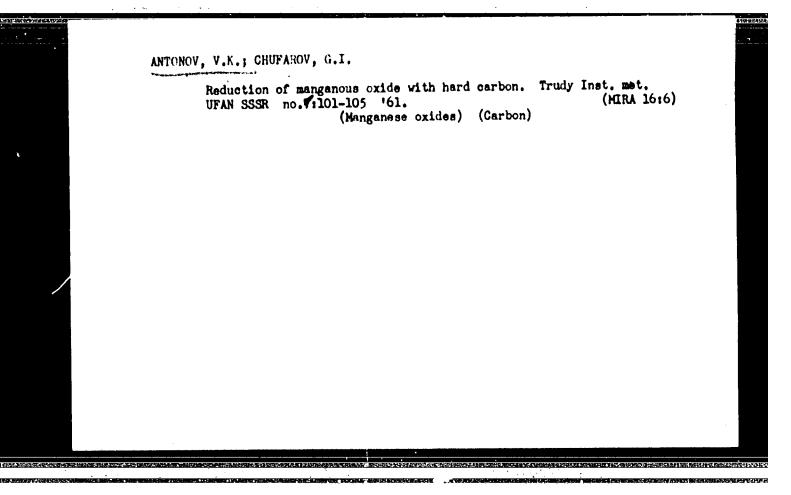
77401 SOV/79-30-1-62/78

(I) (R=CHO) was obtained (40%) by condensation of sodium phenoxide of N-formyl-1-thyrosine methyl ester with 2-chloro-4,6-diethyleneimino-S-triazine, mp 131.5-132.2°. (I) (R=CH₃CO) was obtained (26.5%) similarly from methyl ester of N-acetyl-1-thyrosine, mp 106.5-107.5°. The synthesis of (II) (R=CH₃CO) was made according to the scheme shown in (B) mp 160-161°, yield 40.5%. (III) (R=COOC₂H₅), R'=C₂H₅) was obtained (28%) by the condensation of 2-chloro-4,6-diethyleneimino--S-triazine with potassium acetylaminomalonate, mp 132-133°. Biological tests of the obtained compounds were conducted by Ye. M. Shamayeva and published separately. There are 6 references, 2 U.S., 1 U.K., 1 German, 2 Soviet. The 3 U.S. and U.K. references are: F. Bergel, G. Lewis, J. Chem. Soc., 1957, 1816; E. Jackson, J. Am. Chem. Soc., 74, 837 (1952); J. Burkhalter, V. Stephens, J. Am. Chem. Soc., 73, 56 (1951).

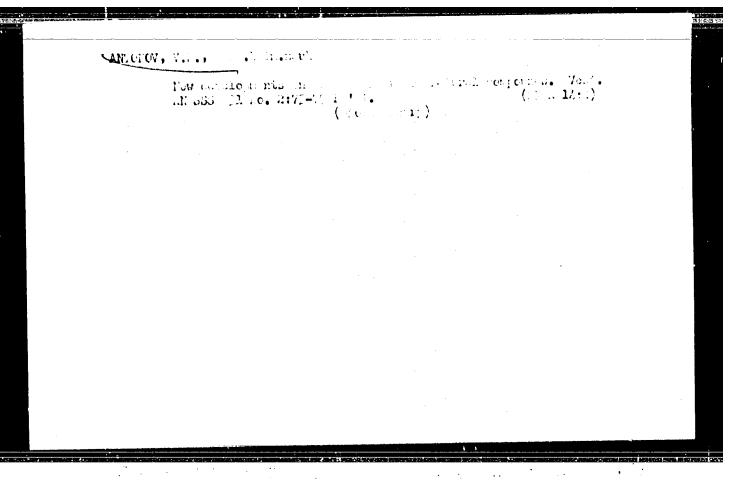
Card 2/4

SHEMYAKIN, Mikhail Mikhaylovich; KHOKHLOV, Aleksandr Stepanovich; KOLOSOV, Mikhail Nikolayevich; BERGEL'SON, Lev Pavydovich; ANTONOV, Vladimir Konsteninovich; SHVETSOV, Yn.B., red. izd-va; DOROKHINA, I.N., tekhn. red.

[Chemistry of antibiotics] Khimiia antibiotikov. Izd.3., perer. i dop. Moskva, Izd-vo Akad. nauk SSSR. Vol.1. 1961. pp.1-774. Vol.2. 1961. pp. 780-1550. (MIRA 14:8) (ANTIBIOTICS)



"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101810003-7





ANTOROY, Y. K., Institute for Chamistry of Fatural Compounds, Academy of Seigneen USR, Honcow - "Inuteraric transformations of hydroxyscyloyologeptides" (Section III)

REDEVITSKAYA, Y. A., Institute for Chemistry Of Natural Compounds, Academy of Sciences USER, Hoscow - "Synthesis and chemical behavior of model glycopeptides" (Section III)

SHORDKINA, L. A., Institute for Chamistry of Natural Compounds, Academy of Sciences USS, Hoscow - "Synthesis of cyclic depaireptides" (Section III)

reports to be submitted for the Fifth European Poptide Symposium, Oxford, England, 3-7 Sep 1962.

SHEMYAKIN, M.M., akademik; ANTONOV, V.K.

Results of the 4th European Symposium on Peptide Chemistry; summary of reports. Zhur. VQHO 7 no.31353-360 '62. (MIRA 15:6) (Peptides-Congresses)

ANTONOV, V.K.

Synthesis of pridepsipeptides containing amino scid residues. Izv. AN SSSR. Otd.khim.mauk no.6:1129-1130 Je '63. (MIRA 16:7)

1. Institut khimii prirodnykh soyedinaniy AN SSSR. (Peptides) (Lmines)

ANTONOV, 'V.K.; SHCHELOKOV, V.I.; SHEMYAKIN, M.M.

Synthesis of cyclodepsipeptides by inclusion of residues of \$\beta\$-hydroxy acids into the diketopiperazine ring. Izv. \$\text{LN SSSR.}\$ Otd.khim.nauk no.6:1145 Je '63. (MIRA 16:7)

1. Institut khimii prirodnykh soyedineniy AN SSSR. (Piperazine) (Acids, Organic) (Peptides)

SHEMYAKIN, M.M.; OVCHINNIKOV, Yu.A.; ANTONOV, V.K.; KIRYUSHKIN, A.A.; IVANOV, V.T.; SHCHELOKOV, V.I.; SHKROU, A.M.

Synthesis of 0,0'-diacetylserratomolide. Izv. AN SSSR. Ser. khim. no.12:2233 D'63. (MIRA 17:1)

. 1. Institut khimii prirodnykh soyedineniy AN SSSR.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101810003-7

West data on hydrony and auton and forcement ton into montide quaters

ANTONOV, V. K.; SHEMYAKIN, M. M.; SHKROB, A. M.

"New data on hydroxy- and amino-acyl incorporation into peptide systems." report submitted for 7th European Peptide Symp, Budapest, 3-8 Sep 64.

ANTONOV, V.K.; KURTS, A.L.

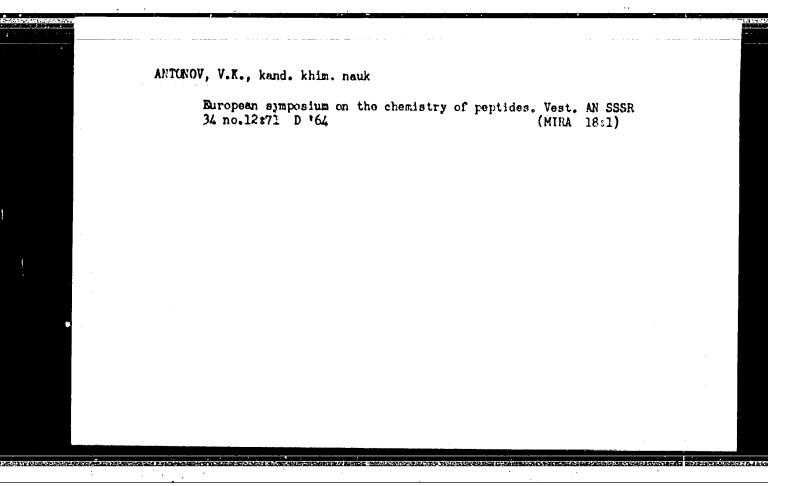
of -Substituted of -amino acids. Report No.9: Bromination of 4-methyl-2-trifluoromethyl-5-oxazolone. Izv.AN SSSR. Ser.khim. no.1:99-103 Ja '64.

l. Institut khimii prirodnykh soyedineniy AN SSSR.

SHROB, A. M.; KRYLOVA, Yu. I.; ANTONOV, V. K.; SHEMYAKIN, M. M.

Encliration of N-acylamides. Izv AN SSSR Ser Khim no. 4:774 Ap 164. (MIRA 17:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.



ANTONOV, V.K.; SHKROB, A.M.; SHEMYAKIN, M.M.

Activation of the amide group by acylation. Part 3: Oxyacyl inclusion reaction in the N-oxyacyllactam series. Zhur. ob. khim. 35 no.8:1380-1389 Ag '65. (MIRA 18:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

"APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101810003-7

ANTONOV, V.K.; SHOHELCKOV, V.I.; SHEMYAKIN, M.M.; TOVARCVA, I.I.; EISELEVA, O.A.

Sole:tive hydrolysis of 0,6' diametyleerratomolide and a comparison of the symbolic and blosynthetic types of the antiblotic.
Antibiot'k' 10 nc.52387-390 My '65. (MIRA 18:6)

1. Institut khimii prirodnykh soyedineniy AN SSSR, Moskva,
2. Laboratorive khimii antibiotikov Instituta khimii prirodnykh soyedineniy AN SSSR, Moskva (for Esemyakin). 3. Laboratoriya vydeloniya 1 orhintaki prirodnykh soyedineniy Instituta khimii prirodnykh soyedineniy AN SJSR, Moskva (for Kiselova).

LEBEDEV, A.Ye.; ANTONOV, V.K.; TAICHYERKO, P.A.: AFBIZOV, V.A.; NEVOYSA, G.G.;
Prinimals uchestive: Zarakerko V. (e., Karrovers, B.S.

Experdence in the sintering of rew (unconcentrated) *tobarro* ore. Sbor.trud. UNLIM nestivible *65.

(MIRA 18:11)

ANTONOV, V.K.; SECHELCKOV, V.I.; SEEMYAKIN, M.M.

Activation of an amide group by acylation. Fart 6: Synthesis of cyclodersipeptides by hydroxyacyl inclusion into cyclopeptides. Zhur.ob.khim. 35 no.12:2239-2246 D *65.

(MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted December 23, 1964.

TATIYEVSEAYA, Ye. P., CHUFAROV, G. I., and ANTONOV, Y. K.

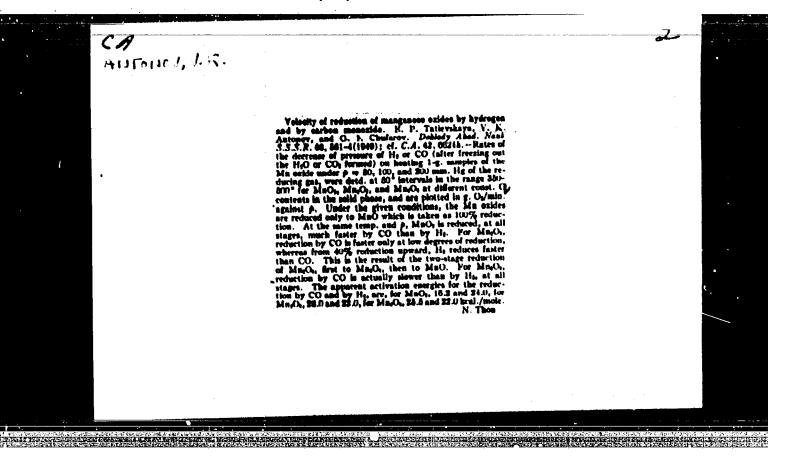
"Kinetics of the Reduction and of Dissociation of the Oxides of Manganese," Dok. AN, 58 No. 9, 1947

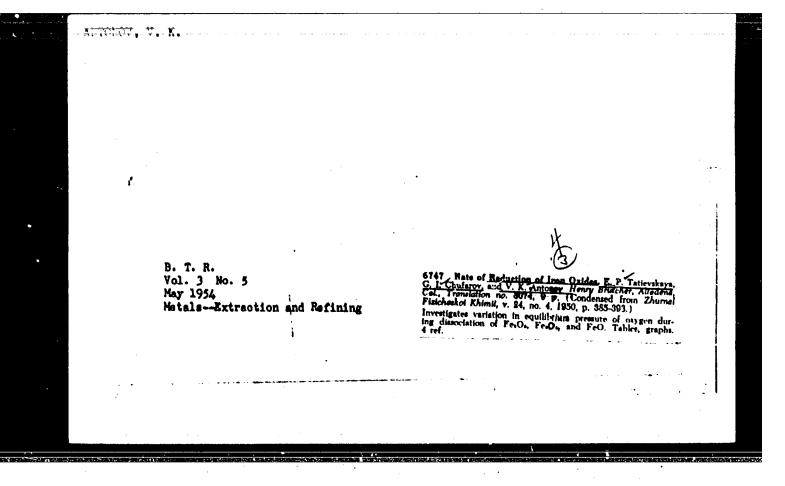
Inst. Cheu. on Metallugy, Unal affil, As

ANTONOV, V. K.

"Kinetics of the Restoration and Dissociation of Manganic Oxides," Is. Ak. Nauk SSSR, Otdel. Tekh. Nauk, No.3, 1948

Ural Affil., AS.





ANTONOV, V. K.

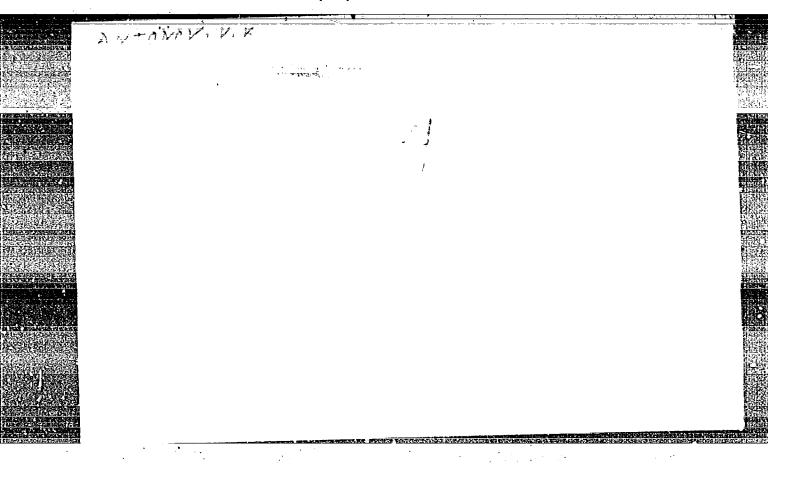
WSSR/Chemistry, Notellurgy - Copper Jan 52

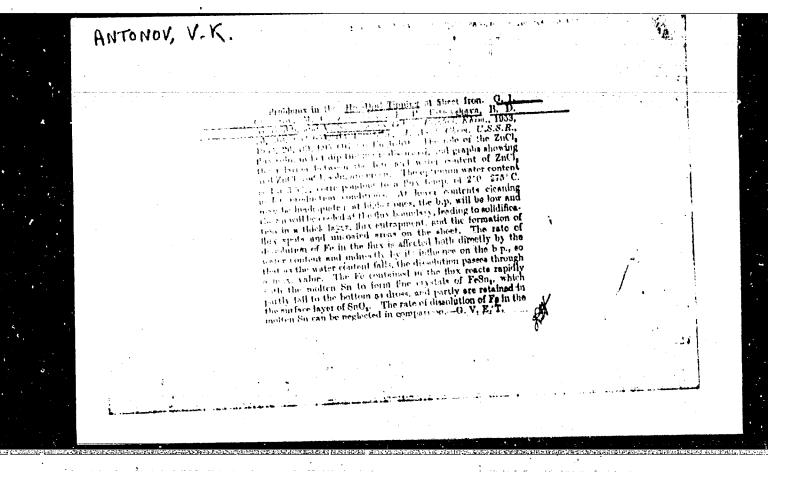
"Retarding Effect of Generus Reaction P educts on the Rate of Reduction of Copper Oxides With Hydrogen and Carbon Monoxide," G. I. (Bufarov, c. D. Averbukh, Te. P. Tatievskaya, V. K. Antonov, Ural Affiliate, Acad Sci USSR, Inst of Chem and Matallurgy, Sverilovsk

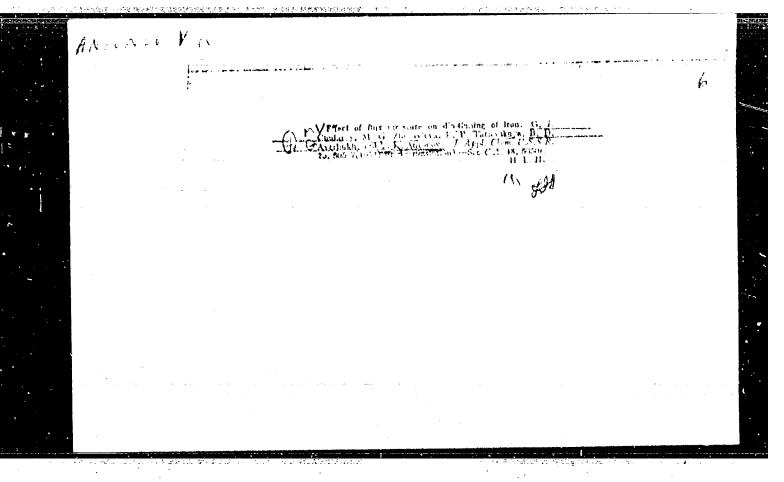
"Thur Fix Khim" Vol XXVI, No 1, pp 31-3"

Gaseous products of the reaction, on being adsorbed at the reaction surface, bring about a sharp lowering of the rate of reduction. A quant expression for the retarding effect of CO₂ is given. The retarding effect of vater vapor is greater for ourprous exide then cupric exide is greater. The relation between the values of adsorption f H2 and CO is in good agreement with kinetic data for values of adsorption f H2 and CO, there is recrysts of newly formed metallic copper, so that the rate of the reaction is greatly lowered.

PA 211740







AMTOMOV, V. K.

USSR/Chemistry

Card 1/2

Authors

Chufarov, G. I., Averbukh, B. D., Tatievskaya, E. P., and Antonov, V. K.

Title

Inhibiting effect of gaseous reaction products on the rate of reduction of ferric oxides with hydrogen and carbon monoxide.

Periodical

: Zhur. Fiz. Khim, 28, Ed. 3, 490-497, March 1954

Abstract

The authors investigated the effect of gaseous reaction products on the rate of reduction of ferric oxides with carbon monoxide and hydrogen in a pressure range of from 100-250 mm mercury column and also measured the adsorption of basic gases and gases obtained during reduction on the surfaces of the oxides. The inhibiting effect of the gaseous reaction product CO₂ during the reduction of Fe₃O₄ and FeO with carbon monoxide can be computed quantitatively by Calculating the rate of reaction according to a certain equation. During reduction of Fe₃O₄ with carbon monoxide and hydrogen at temperatures above 700° there is practically no inhibiting effect of the reaction products during the initial stages, but after

Zhur. Fis. Khim, 28, Ed. 3, 490-497, March 1954

(additional card)

Card 2/2

Abstract

Reduction reached 11%, when a greater amount of Fe₃O_L is formed, the inhibiting effect of carbon monoxide and water vapor becomes great. The experimental material on the inhibiting effect of gaseous reaction products on the rate of reduction of the investigated ferric oxides is in agreement with the data regarding the adsorption of gaseous reducing agents and reaction products on the surface of the mentioned oxides. Seven U.S.S.R. references 1 since 1937. Oraphs.

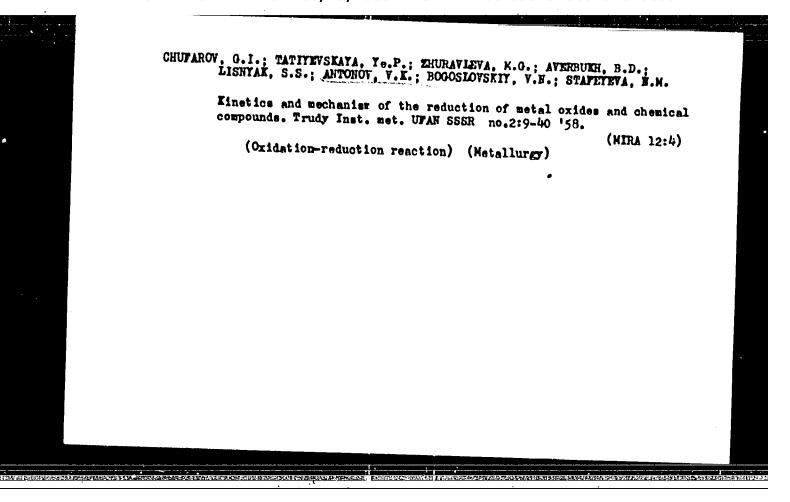
Institution

Acad, of Sc. U.S.S.R. Ural Branch, Institute of Chemistry and

Metallurgy, Sverdlovsk

Submitted

: June 15, 1953



18.3100

507/81-59-12-41658

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 12, p 62 (USSR)

AUTHOR:

Antonov, V.K.

TITLES:

On the Kinetics of Ilmenite Reduction

PERIODICAL:

Tre_in-ta khimii. Ural'skiy fil. AS USSR, 1958, Mr 2, pp 81-95

ABSTRACT:

The rate of reduction of ilmenite and titanium dioxide by graphite in vacuum and in an atmosphere of CO and also by carbon monoxide and H₂ at 950 - 1,150°C has been investigated. The reduction of ilmenite and titanium dioxide by graphite in vacuum proceeds extremely slowly. The reduction in the presence of gaseous reaction products takes place at a higher rate. The rate of reduction by graphite in a CO atmosphere is twice higher than reduction by pure CO due to the interaction of CO₂ with graphite. Among the gaseous reducing agents H₂ is the most active. The reduction of ilmenite by carbon monoxide proceeds autocatalytically. The dependence of the rate (v) of ilmenite reduction on the CO pressure (P) in the range of 10⁻³ - 300 mm Hg obeys the equation v = K · Pⁿ, where K, n are constants. In the reduction by hydrogen a linear dependence of the rate on the H₂ pressure in the gaseous phase is observed.

Card 1/1

ANTONOV, V. K.: Mester Chem Sci (diss) -- "Reducing ilmenite with hydrogen, carbon monoxide, and graphite". Sverdlovsk, 1959. 12 pp (Ural Affiliate of the Acad Sci USSR, Inst of Metallurgy), 150 comies (KL, No 17, 1959, 106)

8/137/61/000/010/004/056 A006/A101

AUTHORS: Sidorov, N. Ye., Lysenko, I. S., Antonov, V. K., Zaporozhets, N. P.

On the use of heated and oxygen-enriched air during the sintering of iron ores

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 10, 1961, 12, abstract 10V85. ("Sb. tr. Ukr. n.-i. in-t metallov", 1960, no. 6, 34 - 44)

Laboratory sintering was performed with a 225 mm high charge layer, 2.5 - 4.5% C and 1.0 basicity. When sintering Krivoy Rog cres, an increase of the air temperature up to 100 and 300°C, entailed a reduction of specific fuel consumption by 12.5 and 25.0% and raised the cutput from 73.4 to 85.5% (+ 10 mm fraction). When sintering Kerch cres mir heating up to 200 - 250°C raised the dagree of As volatility from 20 and 13% to 30.7 and 26.9%. The use of air, heated to 160 - 175°C by gas combustion over a charge layer during 25% of the whole sintering time, raised the efficiency by 3.5%, the output from 76.3 to 80.4%, although 02 was reduced from 20 to 18.3% in the infiltrated air. Air heating over vacuum-chambers 3 - 5 should proceed as follows: a) by gas combustion (Q 1,400 kcal/m³) at its consumption of 13 m³/t of sinter and about 200°C air temperature, making it

Card 1/2

SIDOROV, N.Ye., kand.tekhn.nauk; ANTOHOV, V.K., inzh.; MISHCHEMKO, N.M.;
PILIPATTIS, F.F.

Use of heated and exygen-improved air in iron-ore sintering. Stal'
20 no.10:878-883 0 '60. (MIRA 13:9)

1. Ukreinskiy nauchno-isuledovatel'skiy institut metallov i Yenakiyevskiy metallurgicheskiy savod.
(Sintering) (Oxygen-Industrial applications)

STARSHINOV, B.N., kand.tekhn.nauk; AHTONOV, V.K., dunh.

All-Union Conference of Blast and Sintering Furnace Operators.

Metallurg 6 no.2:13-14 F '61. (MIRA 14:1)

(Metallurgy—Congresses)

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101810003-7"

AVFRBUKH, B.D.; HRAYNINA, D.Z.; ANTONOV, V.K.; CHUFAROV, G.I.

Study of equilibrium conditions in the reduction of manganese ferrite by hydrogen. Zhur. fiz. khim. 36 no.11:2436-2441 N'62. (MIRA 17:5)

1. Institut metallurgii, Ural'skiy filial AN SSSR.

S/076/62/036/011/008/021 B101/B180

AUTHORS:

Averbukh, B. D., Braynina, D. Z., Antonov, V. K., and

Chufarov, G. I. (Sverdlovsk)

TITLE:

Study of equilibrium conditions in the reduction of manganese

ferrite by hydrogen

PERIODICAL:

Zhurnal fizicheskoy khimii, v. 36, no. 11, 1962, 2436 - 2441

TEXT: To find out the structure of ferrites and suitable conditions for their production, the reduction of manganese ferrite in hydrogen was studied at 900° C. Manganese ferrites of different compositions were produced by sintering Fe_2O_3 - MnO mixtures at 1200°C in various atmospheres $(CO_2, Ar, CO_2 + O_2, or air)$, and by sintering Fe_2O_3 - MnO - Mn₃O₄ mixtures. Debye patterns showed that the resulting ferrites were single-phase. The reduction was performed in a mixture of water vapor (p_{H_2}) - 4.579 mm Hg) and hydrogen (p_{H_2}) = 10^{-3} - 10^2 mm Hg). After equilibrium had been established

"2

Card 1/4

Study of equilibrium conditions in...

S/076/62/036/011/008/021 B101/B180

between ferrite and gas mixture, the water was frozen out, the pH2 measured,

the degree of reduction determined from the H_2 consumption, and P_{0_2} the

equilibrium pressure calculated. The phases formed in the reduced ferrite were identified by Debye patterns. Results: Except for those in air, which were higher due to oxidation, the ferrites sintered in different atmospheres showed approximately the same $p_{\rm H_2O}/p_{\rm H_2}$ values with the same degree

of reduction. Ferrites containing excess manganese owing to admixture of Kn_3O_4 , showed higher P_{O_2} due to formation of Mn_3O_4 - MnFe_2O_4 solid solu-

tions. During the ferrite reduction, the lattice constant of the spinel phase gradually fell until it was roughly the same as for magnetite. At 10% reduction, a lower oxide phase appeared with an NaCl lattice, the constant of which increased as the reduction proceeded. At 45% reduction, a metallic phase appeared, with the lattice constant of iron (2.861 %). The reduction of manganese ferrite thus proceeds in two stages: (1) Reduction to the lower oxide phase (Fe, Mn)O via formation of non-ideal solid

Card 2/4

S/076/62/036/011/008/021 B101/B180

Study of equilibrium conditions in...

solutions of MnFe₂O₄ and Fe₃O₄; (2) reduction of the lower oxide phase to iron. a the activities and r'the activity coefficients were calculated for the solid solutions (Table 3). There are 6 figures and 3 tables. The most important English-language reference is: P. K. Foster a. A. J. E. welch, Trans. Faraday Soc., 52, 1636, 1956.

ASSOCIATION: Institut metallurgii, Ural'skiy filial Akademii nauk SSSR

(Institute of Metallurgy, Ural Branch of the Academy of

Sciences USSR)

SUBMITTED: July 3, 1961

Card 3/4

ZARRTSKIY, V.I.; VUL*FSON, N.S.; ZAIKIN, V.G.; KISIN, A.V.; SHKROB, A.M.; ANTONOV, V.K.; SHRMYAKIN, M.M.

Mass spectrometric study of cyclols containing aromatic rings. Izv. AN SSSR Ser. khim. no.11:2076-2079 N 164 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 06/19/2000 CIA-RDP86-00513R000101810003-7"

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L 22897-65 EED-2/EWT(1)/EWT(*)/EWP(b)/EWP(t) IJP(c) JD
ACCESSION NR: AP5001240 B/0126/64/018/005/0711/0716

AUTHOR: Bogoslovskiy, V.N.; Shchepetkin, A.A.; Startseva, I. Yo.: Antonov, V.K.; Chufarov, G. I.: Shur, Ya. S.

TITLE: Effect of the phase composition on the magnetic properties of magnesiummanganese from (crrite with a rectangular masteries roop)

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 5, 1964, 711-716

TOPIC TAGS: ferrite magnetic property, magnesium ferrite, manganese ferrite, spirel solid solution, hysteresis loop

ABSTRACT: The object of this work was to find out whether the rectangularity of the hysteresis loop of Mg-Mn ferrites in related only to the presence of vacancies, or whether trivalent manganese ions also play a major part in this phenomenon. An Mg-Mn-Fe ferrite obtained from a mixture of 34 mol. % MgO, 8.5% MnO (in the form of MnCO3) and 57.5% FegO3 and having a relatively high rectangularity coefficient of the hysteresis loop was investigated. X-ray diffraction was used to determine the concentration of the components of the spirel solid solutions, the magnetic characteristics were measured by the ballistic method, and changes in the composition of the solid solutions

Cord 1/2

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ACCESSION NR: AP5001240

were induced by annealing the samples under various conditions. It was found that the increase or decrease in the rectangularity coefficient of the hysteresis loop is due primarily to the formation and disappearance of Mn^{Q+} ions, although there is a simultaneous change in the concentration of an increase of the spiner solid solution. Samples containing an appreciable quantity of variables with a Mi^{Q+} ions have a rectangularity with ient of less than 2.5. The authors in a solidation rectangular increases inopined by Mn-ke ferrites. Change them a mixture containing ever solimon. If Fe_QO_Q is due to the presence of Mi^{Q+} ions which cause ional distortions of the crystal structure of the spinel solid solution. Orig. art, has a liable, linguise, and 7 formulas.

ASSOCIATION: Institut metallurgii, Sverdlovsk (Metallurgical Institute); Institut fiziki metallov AN SSSR (Institute of the Physics of Metals, AN SSSR)

SUBMITTED: 02Nov63

ENCI. 00

SUB CODF: MM, EM

NO REF SOV: 007

OTHER: 010

Cord 3/2

SHEFOR, A.M.; KRYLOVA, Yu.I.; ANTOROV, V.K.; CHEMIAKON, M.M.

Activation of the amide group by N-acylation, Part 4: Formation and conversions of aromatic cyclols. Chur. ob. khim. 35 no.8: 1389-1398 Ag 165. (MIRA 18:8)

1. Institut khimii prirodnykh soyedineniy AV badh.

ANTONOV, V.K.; AGADZHANYAN, TS.Ye.; TELECTRICA, T.E.; JUSTAERA, M.M.

Activation of an amide group by activation. Part 5: Inclusion of amino acid radicals into linear and cyclic reptides. Zhur. ob.khim. 35 no.12:2231-2238 D 165. (MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SCCR. Cubricted December 23, 1964.

SOV457-59-1-292

Translation from: R ferativnyy zhurnal. Metallurgiya, 1959, Nr 1, p 37 (USSR)

Manchinskiy, V.G., Antonov, V.M. AUTHORS:

Reduction of Iron Ore by Means of Hydrogen and Carbon Mono.cide at Elevated Pressures (Vosstanovlenive zheleznov rudy vodorodom i TITLE

okisyu igleroda pri vysokikh davlemyakh)

Domennoye proiz-vo. Moscow. Metallurgizdat. 1957, V sbPERIODICAL pp 3-19

ABSTRACT: The process of the reduction of Krivoy Rog ore (containing 67.8% Fe and 1.16% S1O2) by the action of H2 and CO was studied at temperatures ranging from 350 to 700°C and at pressures varying from 0 to 25 atm gage; the ore investigated was in a powdered form, in grains ranging from 0.75 to 1.0 mm in size and in the form of cubes 12-13 mm per side. It was established that the greatest acceleration of the reduction process (RP) occurs during hydrogen reduction, with the ore in the form of grains ranging from 0.75 to 1.0 mm in size and with the pressure increased to 5 atm gage. At 350-4000 and at pressures in excess of 5 atm gage bydrogen reduction of the ore, as well as the reduction of samples of it in the form of cubes 12-13 mm

Card 1/2

SOV/137-59-1-292

Reduction of Iron Ore by Means of Hydrogen and Carbon Monoxide (cont.)

per side, is less effective since the rate of the RP is slowed down. It was discovered that in the course of the RP of grains of the Fe ore an increase in pressure will accelerate the decomposition of the CO until the high CO2 concentration in the reaction zone will halt the decomposition process entirely. Increasing the pressure above 15 atm gage does not affect the quantity of the decomposed CO. The greatest rate of CO decomposition is observed at a temperature of 500°. It was established that the effect of the gas pressure on the rate of reduction of the ore by the CO is governed by the reciprocal influence of the process of CO decomposition and the RP of the Fe in the ore, the rates of these processes being affected to a different degree by an increase in gas pressure.

L. Kh.

Card 2/2

ANTONOV, V.M.

Effect of external friction on the deep drawing process.
Kus.-ehtam. proisv. 5 no.10:13-15 0 '63. (MIRA 16:11)

LEVIN, L.Ya.; VANCHIKOV, V.A.; SHUR, A.B.; KAYLOV, V.D.; BYALYY, L.A.;
Prinimali uchastiye: RUSAKOV, P.G.; ANTONOV, V.M.; KOSTROV, V.A.;
KOTOV, A.P.; YEGOROV, N.D.; BUGAYEV, K.M.; SOLODKOV, V.I.;
YASHCHENKO, B.F. KOREGIN, A.V.; SAPOZHNIKOV, N.P.; TSUKANOV, V.N.;
VITOVSKIY, V.M.

Mastering the operation of high-capacity blast furnaces. Stal' 23 no.9:773-778 S '63. (MIRA 16:20)

DVCRNIKOV, A.G.; TKACH, B.I.; SHTANCHENKO, M.S.; ANTONOV, V.M.

Some features of the distribution of cinnabar and native elements in loose sediments of the Nagol'nyy Ridge. Dokl. AN SSSR 151 no.5:1189-1192 Ag '63. (MIRA 16:9)

1. Institut mineral'nykh resursov AN UkrSSR. Predstavleno akademikom N.M.Strakhovym.
(Nagol'nyy Ridge--Hinerals)

ACCESSION NR: AP4024068

5/0048/64/028/002/0400/0403

AUTHOR: Kononov, B.A.; Antonov, V.M.; Yevstigneyev, V.V.

TITLE: Investigation of the energy spectrum of the electron beam from a 7.5 MeV betatron (constructed at the Tomsk Polytechnic Institute) Report, Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev 28 Jan to 2 Feb 19637

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v.28, no.2, 1964, 400-403

TOPIC TAGS: betatron electron spectrum, betatron output, Tomsk Polytechnic Insti-

ADSTRACT: The spectrum of the electrons emitted by the 7.5 MeV betatron constructed at the Tomsk Polytechnic Institute was investigated. A brief description of the botatron which has an B-shaped magnet is given. The experimental arrangement is disgramed in Fig.1 of the Enclosure. The electron distribution was analyzed by means of a sector type β-spectrometer, developed at the Institute; the electrons were detected by means of two AS-2 type gas discharge counters, connected into a coincidence circuit. The electron spectra obtained at different output energies are shown in Figs. 2 and 3 of the Enclosure. Other figures in the text give the variation of

Cord 1/4

CIA-RDP86-00513R000101810003-7"

APPROVED FOR RELEASE: 06/19/2000

ACCESSION NR: AP4024068

the half-width of the spectrum as a function of the electron energy, the voltage on the deflector, and the thickness of an aluminum absorber in the beam. The test results are described briefly. The tests show that under the optimum operating conditions the half-width of the electron energy spectrum does not exceed 1%. With deviation from the optimum conditions the half-width of the energy distribution in the extracted beam may increase to 5%. It is noted that these characteristics are adequate for medical purposes and radiation chemistry, but that for physical experiment requiring a high degree of accuracy a betatron of this type must be equiped with an appropriate stabilizing system. Origiart has: 6 figures.

ASSOCIATION: Tomskiy politekhnicheskiy institut (Yomsk Polytechnic Institute)

SUBMITTED: 00

DATE ACQ: 08Apr64

ENCL: 03

SUB CODE: NS, SD

NR REF SOV:000

OTHER: 000

Cord 2/4

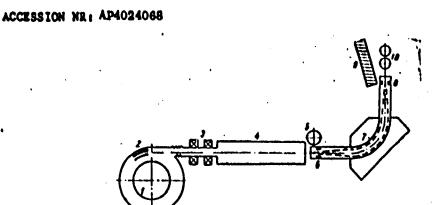
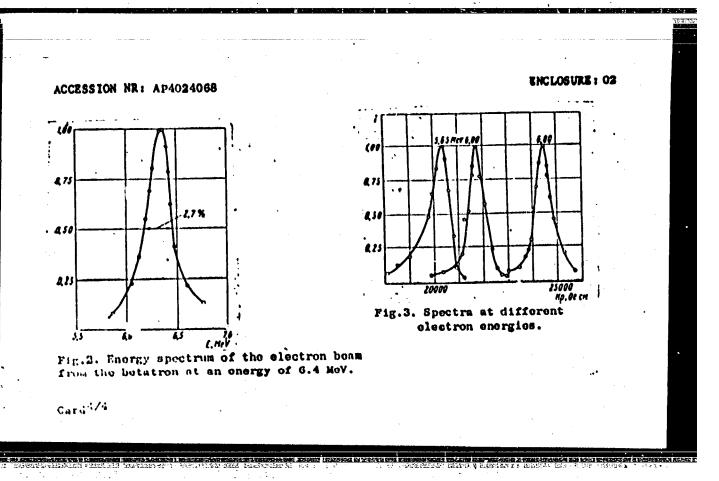
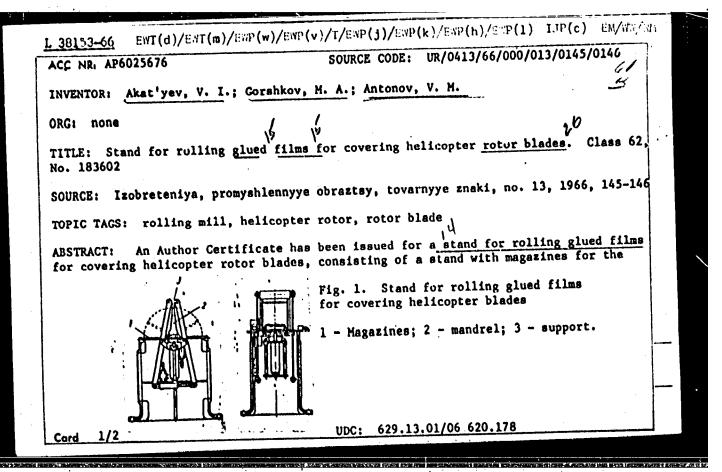


Fig.1. Diagram of the experiment: 1 - vacuum chamber of the botatron, 2 - deflector, 3 - quadrupole lenses, 4 - electron duct, 5 - ionization chamber, 6 - entrance aperture of the spectrometer, 7 - spectrometer vacuum chamber, 8 - exit aperture of the spectrometer, 9 - lead shielding, 10 - gas counters.

ENCLOSURE: 01

Card 3/4





 \rightarrow

ANIOMOV, V. M.; KONONOV, B. A.; YEVSTIGNEYEV, V. V.

"Magnetic Beta Spectrometer with Double Focussing for Carrying out Physics Investigations with the Electron Beam of a Betatron."

report submitted for All-Union Conf on Nuclear Spectroscopy, Toilisi, 14-22 Feb 64.

Tomskiy politekhnicheskiy institut (Tomsk Polytechnical Inst)

L 08352-67 EWT(m)

SOURCE CODE: UR/0058/66/000/005/A051/A051

ACC NR: AR6028123

AUTHOR: Antonov, V. M.; Kononov, B. A.; Yevstigneyev, V. V.

43

TITLE: Double focusing magnetic Beta spectrometer for the analysis of the energy distribution of electrons with energies up to 35 MeV

SOURCE: Ref. zh. Fizika, Abs. 5A425

REF. SOURCE: Izv. Tomskogo politekhn. in-ta, v. 138, 1965, 220-227

TOPIC TAGS: beta spectroscopy, spectrometer, electron energy, electron loss, bremsstrahlung, betatron

ABSTRACT: A double-focusing magnetic β spectrometer of the sector type is described, having flat and perallel pole pieces and developed for use principally in experiments aimed at the study of the energy lost by electrons in matter. Compared with the sector spectrometer developed earlier, the present spectrometer has double focusing, a larger energy range, and better operating characteristics. In addition to working with the electron beam of a betatron, it is planned to use the spectrometer in experiments where it is necessary to investigate the energy spectrum of bremsstrahlung. In addition, it can be successfully used for an analysis of β and γ spectra of radioactive isotopes. The construction of the spectrometer permits exact tuning possible and makes possible a variety of physical investigation. L. β . [Translation of Abstract]

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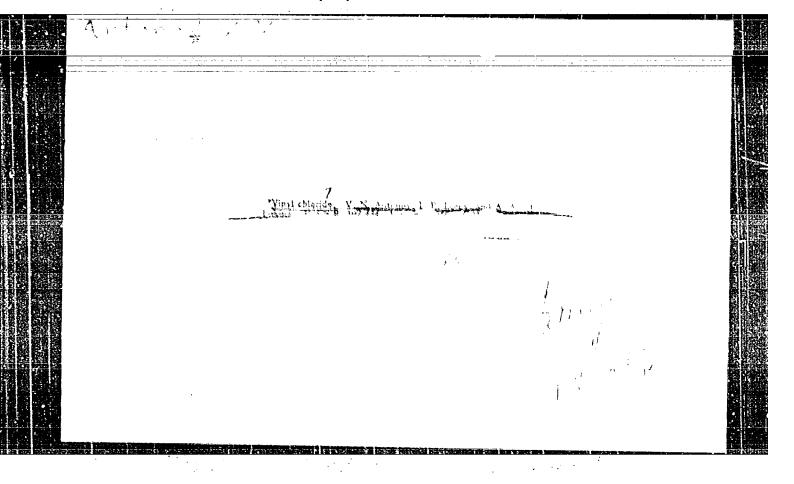
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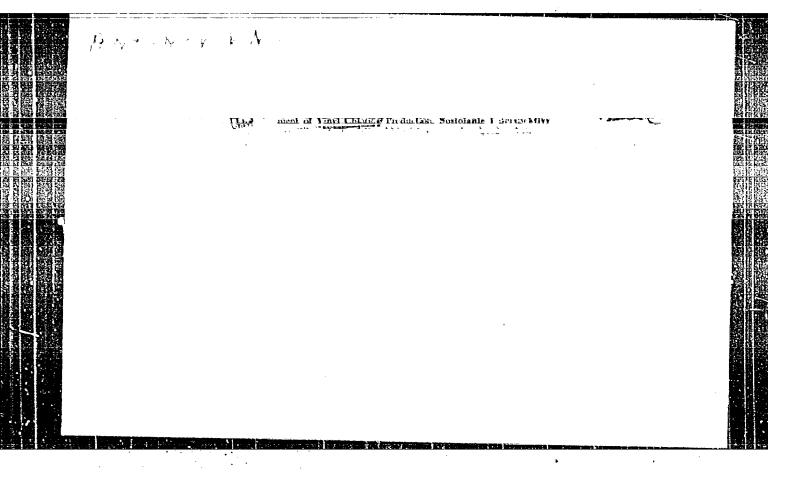
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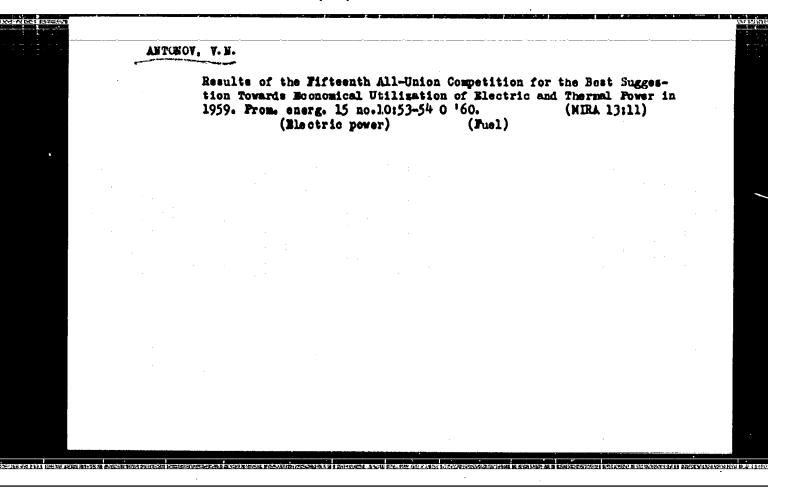
DVORNIKOV, A.G. [Dvornikov, O.H.]; TKACH, B.I.; SHTANCHENKO, M.J.;
ANTONOV, V.M.

Minerals of a group of native elements in the loose sediments of the Nagol'nyy Range. Dop. AN URSR no.9:1226-1229 '64. (MIRA 17:11)

1. Institut mineralinykh resursov AN UkrSSR. Predstavleno akademikom AN UkrSSR N.P. Semenenko [Semenenko, M.F.].







ACC NR. AP7001517

SOURCE CODE: UR/0229/66/000/011/0027/0031

AUTHOR: Antonov, V. N.; Izak, M. D.

ORG: None

TITLE: An automatic remote control system for a marine generator drive

SOURCE: Sudostroyeniye, no. 11, 1966, 27-31

TOPIC TAGS: remote control system, electric generator, automatic control equipment,

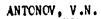
ABSTRACT: The authors describe a remote system for automatically controlling and monitoring the operation of a 6D50A marine diesel generator with a power of 700 kw at 750 rpm. The installation provides for programmed start-up of a stand-by generator when the main generator fails or when the electric system is overloaded. A general schematic block diagram of the system is given and each of its modes of operation is discussed separately. Orig. art. has: 5 figures.

SUB CODE: 13, 09/ SUBM DATE: None

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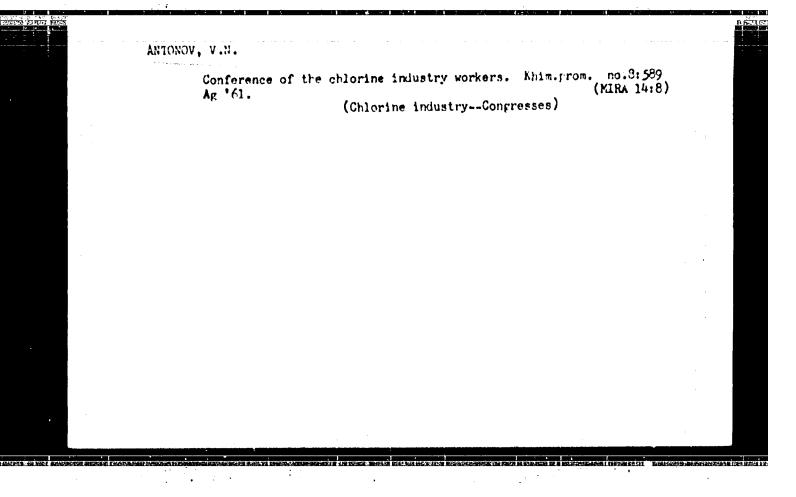
Card 1/1

WC: 629.12-83-52



Production of initial monomers for carbochain fibers. Khim. volok. no.3:3-7 '61. (MIRA 14:6)

1. Gcskomitet Soveta Ministrov SSSR po khimii.
(Polymerization) (Textile fibers, Synthetic)

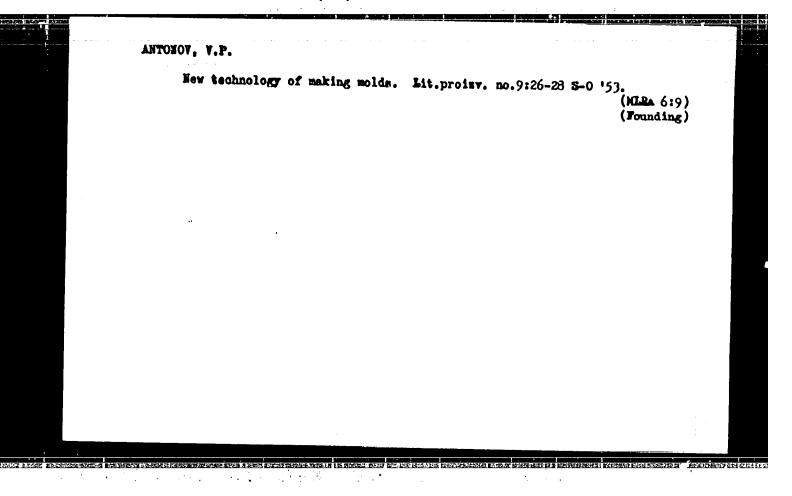


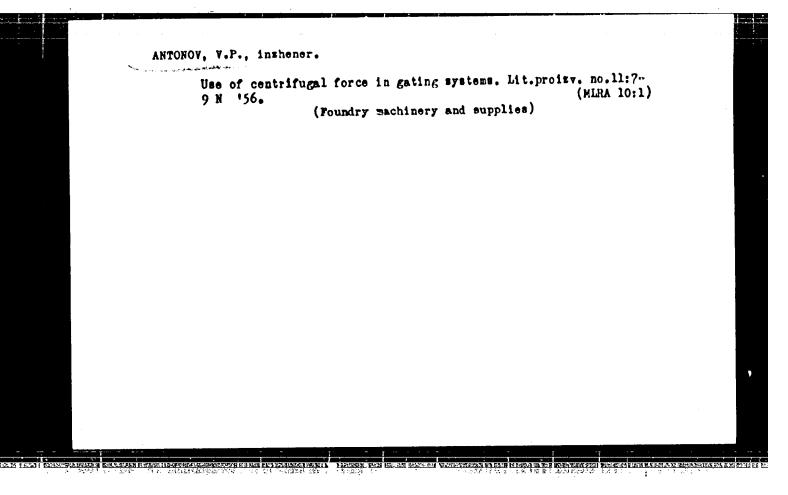
ZHAKSYBAYEV, N.; FOMENKO, V.D.; ANTONCV, V.P.; SAMARTSEV, I.A.; VASIL'YEV, B.F.; YAGODNITSYN, M.A.; VENGER, M.S.

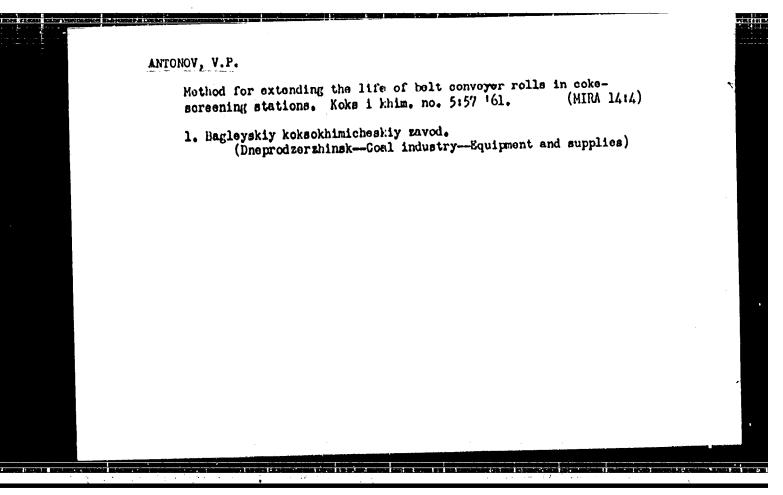
Inadequate methods of waste water analysis are retarding the improvement of the sanitary condition of reservoirs. TSvet. met. 35 no.3:86-87 Mr *162. (MIRA 15:4)

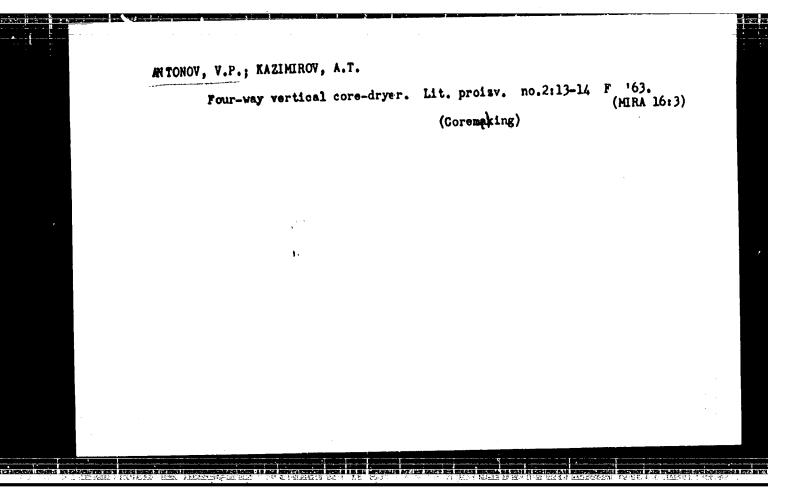
1. Direktor Zyryanovskogo svintsovogo kombinata (for Zhaksybayev).
2. Sekretar' partiynogo komiteta Zyryanovskogo svintsovogo
kombinata (for Fomenko). 3. Nachal'nik obogatitel'noy fabriki
Zyryanovskogo svintsovogo kombinata (for Antonov). 4. Nachal'nik
tsentral'noy knimicheskoy laboratorii Zyryanovskogo svintsovogo
kombinata (for Samartsev). 5. Nachal'nik byuro stochnykh vod
Zyryanovskogo svintsovogo kombinata (for Vasil'yev). 6. Rukovoditel'
metodicheskoy gruppy khimicheskoy laboratorii Zyryanovskogo
svintsovogo kombinata (for Yagodnitsyn). 7. Gosudarstvennyy
sanitarnyy inspektor po promyshlennoy gigiyene VostochnoKazalhstanskoy sanitarnoy coidemiologicheskoy stantsii (for
Venger).

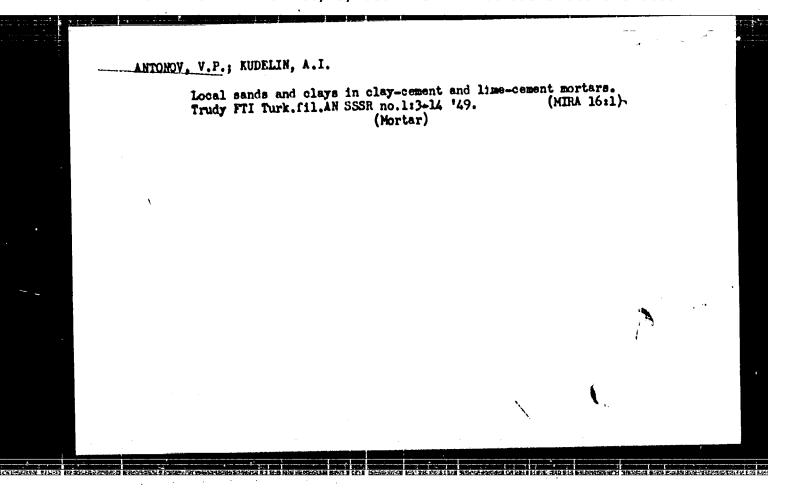
(Water--Analysis) (Roservoirs)











ANTONOV, V. P. [deceased]; AYZINBERG, Yu. B.

Calcined gypsum with increased strength. Trudy FTI Turk. fil.

AN SSSR no.2:17-27 '50. (MIRA 16:1)

(Krasnovodsk-Gypsum)

"APPROVED FOR RELEASE: 06/19/2000 C

CIA-RDP86-00513R000101810003-7

L 10267-66 ENT(d)/ENT(1)/EPF(n)-2/T/ENP(1)/ETC(m) IJP(c) NW/GG/GW SOURCE CODE: UN/0046/05/011/003/0294/0299

AUTHOR: Antonov, V. P.; Ol'shevskiy, V. V.

ORG: Acoustics Institute AN SSSR, Moscow (Akusticheskiy institut AN SSSR)

TITIE: Space-time correlation of sea reverberations

SOURCE: Akusticheskiy zhurnal, v. 11, no. 3, 1965, 294-299

ARSTRACT: The space-time correlation of sea reverberation is analyzed by using the following mathematical model of reverberation as a random process,

$$F(t) = \sum_{i=1}^{\infty} a_i \Psi(t_i) S[\epsilon_i(t-t_i)], \qquad (1)$$

where a_i is a random quantity that depends on the cross section of the i-th scatterer and the directivity of the acoustic antennas, Y(t) is a function describing the decrease in the levels of the elementary scattered signals due to the divergence of the sound-wave front and to absorption, S(t) the radiated signal, and ε_i is a random quantity which takes into account the motion of the scatterers,

$$\epsilon_1 = 1 + \frac{2v_1}{c} \tag{2}$$

Cord 1/2

VDC: 534.2 : 519.25

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ACC NR: AP5021475

with v_i the velocity component of the i-th scatterer in the direction towards the origin and t_i the time of arrival of the corresponding echo signal at the point of reception. By using this model, general relations are obtained for the space-time correlation function of the reverberation, with account taken of its nonstationary nature, the motion of the scatterers, and the directivity of the acoustic antennas. Scattering by inhomogeneities located in an infinite space (volume reverberation) and in a thin layer (surface and bottom reverberation) are treated as particular examples. Orig. art. has: 1 figure and 19 formulas.

SUB CODE: 20/ SUBM DATE: 28 Jun64/ ORIG REF: 005/ OTH REF: 002

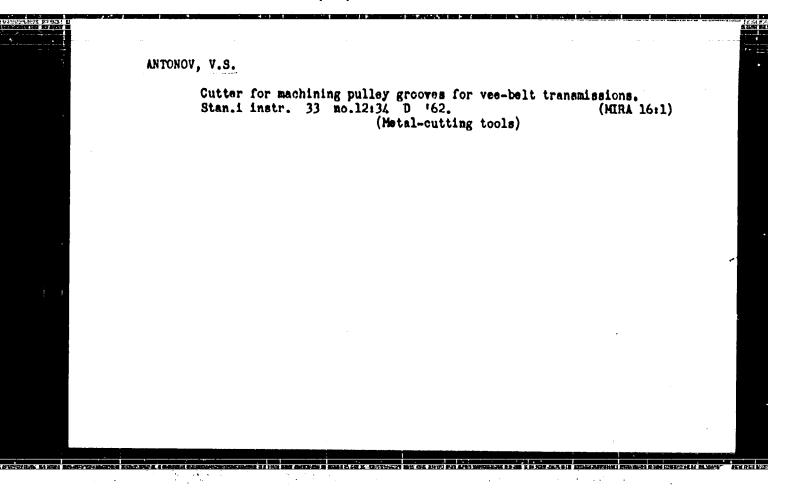
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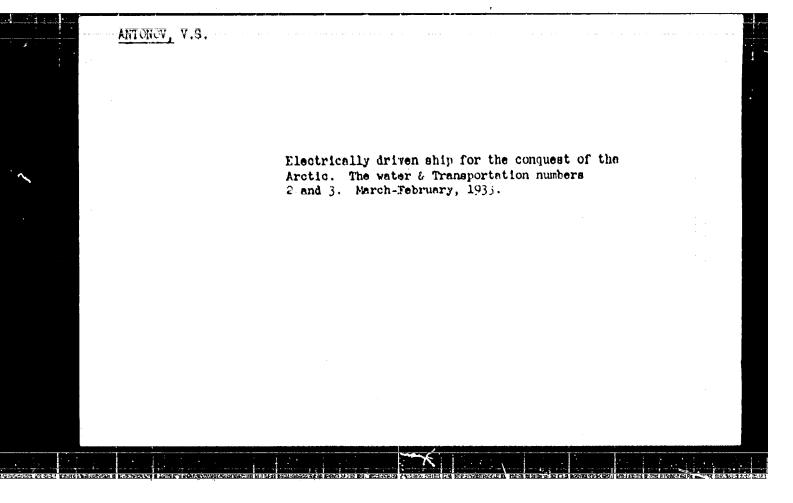
RADZIVILOV, Ye.N. Prinimal uchastiye AMICHOV, V.S. USHAKOV, V.B., kand.tekhn.nauk, red.; KIRZHNHR, TS.Ya., tekhn.red.

[Computers. Very low frequency range devices] Elektronnye matematicheskie machiny. Pribory infraniskogo dispasons chastot. Katalog. [n.p.] TSentr.biuro tekhn.informatsii priborestreeniia i sredstv avtomatizatsii, 1958. 70 p.

(MIRA 14:1)

1. Moscow. Nauchno-issledovatel'skiy institut schetnogo mashinostroyeniya. (Electronic calculating machines) (Electric meters)





- 1. AMTONOV, V.S.
- 2. USSR (600)

"The Role of Rivers in the Regimes of Arctic Seas." Trudy vtorogo vsosoyusnogo geografichoskogo s'yozda, Volume II, 1948 (307-314)

9. Meteorologiya i Cidrologiya, No. 3, 1949.

Report U-2551, 30 Oct 52.

Autonom, V. S. O killy vicheskom talentinami Tury. (Climatic translation of Autonom, V. S. O killy vicheskom talentinami Tury. (Climatic translation of the Climatic of the Climatic of the Climatic of the Climate of Tura, fig., 10 refs. DIC.—The and her describes the general characteristics of the climate of Tura, fig., 10 refs. Dic.—The and her describes the general characteristics and then gives a detailed account of regional climates with particular reference in the dependence of climate upon relief. Seven regional climates are cradibleded and they are shown on a map. These climatic regions are climatic regions are restablished and they are shown on a map. These climatic regions are the western valley steppe rome, castern valley steppes of the scuttern mountain slopes, western ridges and mountains, the mountain ferust rome and the high mountain the desert steppe rome of the Ulvia-Nur basin, the mountain ferust rome and the high mountain some. Subject Headings: 1. Climatic classifications 2. Climate of Tura 3. Tura, Asiatic U.S.S.R.—I.I. D. A.R.	
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U.S.S.R LL.P.	

Hir I CHEV, V S.

USSR/Physics of the Atmosphere - Dynamic Meteorology, M-2

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36082

Author: Antonov, V. B., Baranov, N. P., Makhover, Z. M.

Institution: None

Title: Certain Results of Applying the Suggestions by K. I. Kashin and

M. .V. Gritsenko to the Prediction of the Emergence of Caspian

Cyclones

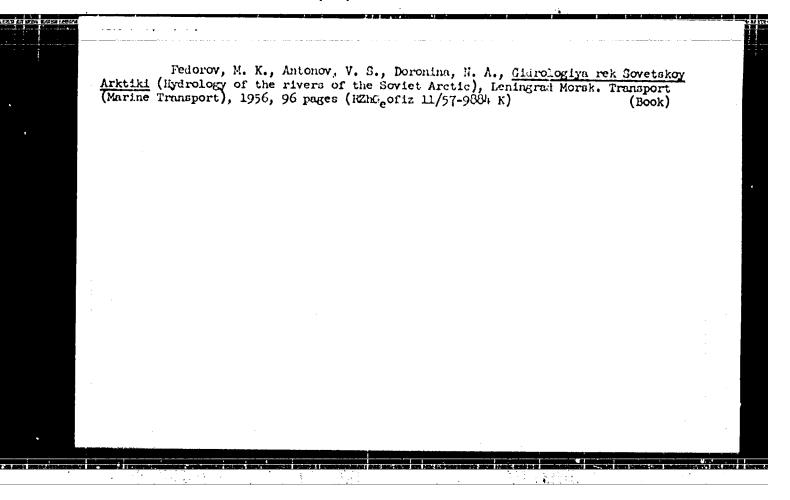
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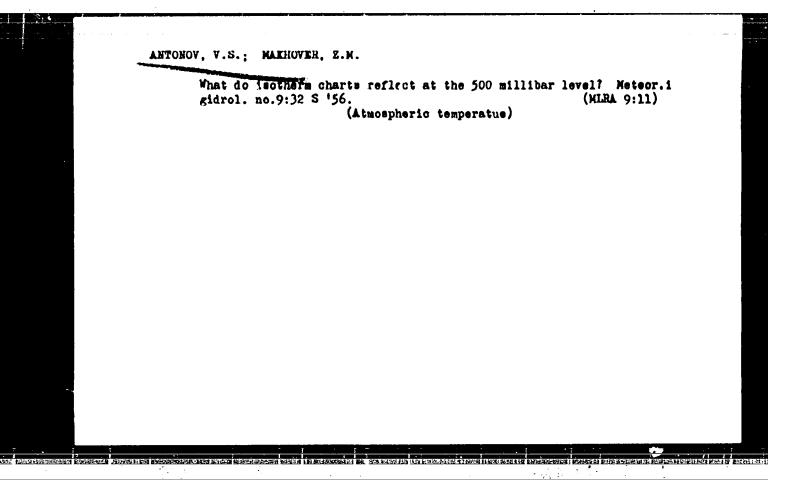
Periodical: Meteorol. i gidrologiya, 1955, No 6, 34-35

Abstract: For the sake of verification, an analysis was made of 32 aero-

logically-interpreted cyclones in the regions of the northern Caucasus, the Caspian, and the Povolzh'ye. In 30 cases the cyclones moved parallel to the axis of the tongue of heat on the 500 mb isobaric surface thus, confirming the correctness of the above statement. An example illustrating the motion of the cyclone in accordance with the above assumption is given.

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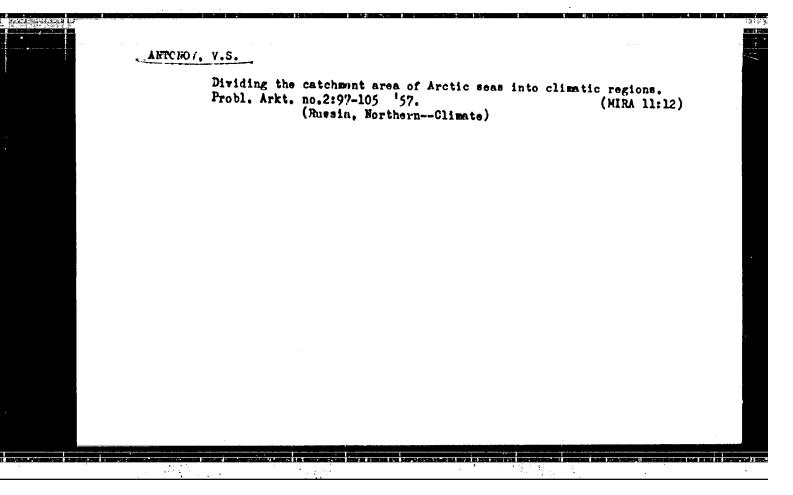


ANTONOV, V.S.; BARANOV, N.P.; MAKHOVER, Z.M.

Forecasting the appearance of Caspian cyclones in the southeastern European region of the U.S.S.R. Trudy TSIP no.42:3-10 156.

(MLRA 9:11)

1. Voroneshekoye gidrometbyuro.
(Russia, Southern--Cyclones)



AMTONOV, V.S.

Iffect of continental discharges on the currents of the Arctic Ocean. Probl. Sev. no.1:52-64 '58. (MIRA 11:12)

1. Arkticheskiy nauchno-issledovatel'skiy institut. (Arctic Ocean-Hydrology)